

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A printing apparatus comprising:
 - a detection section that is capable of moving and that is for detecting a medium to be printed; and
 - a transporting section for transporting the medium to be printed in a direction that intersects a movement direction of said detection section;
 - said printing apparatus;
 - causing said detection section to be positioned on one side in said movement direction;
 - causing said transporting section to transport said medium to be printed in a predetermined direction up to a detection position where said detection section detects said medium to be printed; and
 - causing said detection section to move from the one side to the other side
that is opposite from the one side in said movement direction;
when-in case that an upper end, among an upper right end and an upper left end of said medium to be printed, that is on a side opposite from a side where said detection section is positioned is leading by at least a set amount at said detection position,

~~causing said detection section to be positioned on the other side that is opposite from the one side in said movement direction, then causing said transporting section to transport said medium to be printed from said detection position in a direction opposite from said predetermined direction, then~~

~~causing said medium to be printed to be carried transported in said predetermined direction up to the detection position where said detection section detects said medium to be printed,~~

~~and then causing said medium to be printed to be carried transported by a predetermined amount in said predetermined direction from said detection position; and~~

in case that an upper end, among the upper right end and the upper left end of said medium to be printed, that is on the side where said detection section is positioned is leading at said detection position,

causing said medium to be printed to be transported by said transporting section in said predetermined direction from said detection position by said predetermined amount without causing said transporting section to transport said medium to be printed from said detection position in the direction opposite from said predetermined direction.

2. (currently amended): A printing apparatus according to claim 1, wherein when an upper end, among the upper right end and the upper left end of said medium to be printed, that is on the side where said detection section is positioned is

leading at said detection position, said medium to be printed is carried-transported by said transporting section in said predetermined direction from said detection position by said predetermined amount.

3. (currently amended): A printing apparatus according to claim 2, wherein when the upper end, among the upper right end and the upper left end of said medium to be printed, that is on the side opposite from the side where said detection section is was positioned is leading by less than said set amount at said detection position, said medium to be printed is carried-transported by said transporting section in said predetermined direction from said detection position by said predetermined amount.

4. (currently amended): A printing apparatus according to claim 1, further comprising:

a print head for printing on said medium to be printed by ejecting ink as said print head moves in a main-scanning direction that intersects the transporting direction in which said medium to be printed is carried transported.

5. (previously presented): A printing apparatus according to claim 4, wherein said detection section is provided together with said print head in/on a moving member for moving in said main-scanning direction.

6. (previously presented): A printing apparatus according to claim 1,

wherein the upper end, among the upper right end and the upper left end of said medium to be printed, that is leading at said detection position is found by detecting whether or not said medium to be printed is present by moving said detection section from the one side to the other side in said movement direction after transporting said medium to be printed in said predetermined direction up to said detection position where said detection section positioned on the one side in said movement direction detects said medium to be printed.

7. (canceled).

8. (currently amended): A printing apparatus according to claim 67,
wherein, in the process of moving said detection section from the one side to the other side in said movement direction,
if said detection section does not detect said medium to be printed, then it is assumed that the upper end, among the upper right end and the upper left end of said medium to be printed, that is on said one side in said movement direction of said detection section is leading at said detection position, or that the upper end, among the upper right end and the upper left end of said medium to be printed, that is on said other side in said movement direction of said detection section is leading by less than the set amount, and

if said detection section detects said medium to be printed, then it is assumed that the upper end, among the upper right end and the upper left end of said medium to be printed, that is on said other side in said movement direction of said detection section is leading by at least the set amount.

9. (previously presented): A printing apparatus according to claim 1,
wherein said detection section has a light-emitting member for emitting light and a light-receiving member for receiving the light that is emitted by said light-emitting member, and
detects said medium to be printed based on an output value of said light-receiving member.

10. (original): A printing apparatus according to claim 3,
wherein said print head performs printing with respect to an entire surface of said
medium to be printed.

11. (canceled).

12. (currently amended): A printing method for a printing apparatus provided with a sensor that is capable of moving and that is for detecting a medium to be printed, and a transport roller for transporting the medium to be printed in a direction that intersects a movement direction of said sensor, said printing method comprising:

a-step of causing said sensor to be positioned on one side in said movement direction;
a-step of causing said transport roller to transport said medium to be printed in a predetermined direction up to a detection position where said sensor detects said medium to be printed; and

a-step of, causing said sensor to move from the one side to the other side that is opposite from the one side in said movement direction, and

when an upper end, among an upper right end and an upper left end of said medium to be printed, that is on a side opposite from a side where said sensor is was positioned is leading by at least a set amount at said detection position,

~~causing said sensor to be positioned on the other side that is opposite from the one side in said movement direction, then causing said transport roller to transport said medium to be printed from said detection position in a direction opposite from said predetermined direction,~~

~~then causing said medium to be printed to be carried-transported in said predetermined direction up to the detection position where said sensor detects said medium to be printed,~~

~~and then causing said medium to be printed to be carried-transported by a predetermined amount in said predetermined direction from said detection position, and when an upper end, among the upper right end and the upper left end of said medium to be printed, that is on the side where said detection section is positioned is leading at said detection position,~~

~~causing said medium to be printed to be transported by said transport roller in said predetermined direction from said detection position by said predetermined amount without causing transport of said medium to be printed from said detection position in the direction opposite from said predetermined direction.~~

13. (currently amended): A computer readable storage medium which stores program instructions for causing a printing apparatus, provided with a detection section that is capable of moving and that is for detecting a medium to be printed and a transporting section for

transporting the medium to be printed in a direction that intersects a movement direction of said detection section, to achieve:

a function of causing said detection section to be positioned on one side in said movement direction;

a function of causing said transporting section to transport said medium to be printed in a predetermined direction up to a detection position where said detection section detects said medium to be printed; and

a function of, causing said detection section to move from the one side to the other side that is opposite from the one side in said movement direction,

when an upper end, among an upper right end and an upper left end of said medium to be printed, that is on a side opposite from a side where said detection section ~~is~~ was positioned is leading by at least a set amount at said detection position,

~~causing said detection section to be positioned on the other side that is opposite from the one side in said movement direction, then causing said transporting section to transport said medium to be printed from said detection position in a direction opposite from said predetermined direction,~~

then causing said medium to be printed to be carried transported in said predetermined direction up to the detection position where said detection section detects said medium to be printed, and

then causing said medium to be printed to be carried transported by a predetermined amount in said predetermined direction from said detection position, and

when an upper end, among the upper right end and the upper left end of said medium to be printed, that is on the side where said detection section is positioned is leading at said detection position,

causing said medium to be printed to be transported by said transporting section in said predetermined direction from said detection position by said predetermined amount without causing said transporting section to transport said medium to be printed from said detection position in the direction opposite from said predetermined direction.

14. (currently amended): A computer system comprising:

a printing apparatus provided with a detection section that is capable of moving and that is for detecting a medium to be printed, and a transporting section for transporting the medium to be printed in a direction that intersects a movement direction of said detection section; and

a main computer unit that is connected to said printing apparatus;

said computer system;

causing said detection section to be positioned on one side in said movement direction;

causing said transporting section to transport said medium to be printed in a predetermined direction up to a detection position where said detection section detects said medium to be printed; and

causing said detection section to move from the one side to the other side that is opposite from the one side in said movement direction, and

when an upper end, among an upper right end and an upper left end of said medium to be printed, that is on a side opposite from a side where said detection section ~~is- was~~ positioned is leading by at least a set amount at said detection position, ~~causing said detection section to be positioned on the other side that is opposite from the one side in said movement direction, then causing said transporting section to transport said medium to be printed from said detection position in a direction opposite from said predetermined direction,~~ then causing said medium to be printed to be carried-transported in said predetermined direction up to the detection position where said detection section detects said medium to be printed, and ~~then causing said medium to be printed to be carried-transported by a predetermined amount in said predetermined direction from said detection position, and~~ when an upper end, among the upper right end and the upper left end of said medium to be printed, that is on the side where said detection section is positioned is leading at said detection position, causing said medium to be printed to be transported by said transporting section in said predetermined direction from said detection position by said predetermined amount without causing said transporting section to transport said medium to be printed from said detection position in the direction opposite from said predetermined direction.

15. (currently amended): A printing apparatus comprising:

a sensor that is capable of moving and that is for detecting a medium to be printed; and
a transport roller for transporting the medium to be printed in a direction that intersects a movement direction of said sensor;

said printing apparatus:

causing said sensor to be positioned on one side in said movement direction;
causing said transport roller to transport said medium to be printed in a predetermined direction up to a detection position where said sensor detects said medium to be printed; and

causing said sensor to move from the one side to the other side that is opposite from the one side in said movement direction, and

when an upper end, among an upper right end and an upper left end of said medium to be printed, that is on a side opposite from a side where said sensor is was positioned is leading by at least a set amount at said detection position,

~~causing said sensor to be positioned on the other side that is opposite from the one side in said movement direction, then causing said transport roller to transport said medium to be printed from said detection position in a direction opposite from said predetermined direction,~~

then causing said medium to be printed to be carried transported in said predetermined direction up to the detection position where said sensor detects said medium to be printed, and

~~-then causing said medium to be printed to be carried transported by a predetermined amount in said predetermined direction from said detection position, and~~

when an upper end, among the upper right end and the upper left end of said medium to be printed, that is on the side where said detection section is positioned is leading at said detection position,
causing said medium to be printed to be transported by said transporting roller in said predetermined direction from said detection position by said predetermined amount without causing said transporting roller to transport said medium to be printed from said detection position in the direction opposite from said predetermined direction.